

# INTERNATIONAL SEARCH REPORT

International application No  
PCT/US2008/057911

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> INV. C07D401/14 C07D403/04 C07D405/14 A61K31/506 A61P3/04 A61P9/00 A61P11/00 A61P25/00 A61P37/00			
According to International Patent Classification (IPC) or to both national classification and IPC			
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) C07D A61K A61P			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, CHEM ABS Data			
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>			
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
X	WO 2005/058883 A (ALMIRALL PRODESFARMA SA [ES]; CRESPO CRESPO MARIA ISABEL [ES]; PRAT QU) 30 June 2005 (2005-06-30) claims 1-27, 29-32; examples 85-88, 90-93, 95, 96	1-10, 16-20	
X	EP 0 459 830 A (WELLCOME FOUND [GB]) 4 December 1991 (1991-12-04) page 2, line 1 - line 11; claims 1-8	1, 13, 14, 16-20	
X	WO 2006/110884 A (NEUROCRINE BIOSCIENCES INC [US]; ALMIRALL PRODESFARMA SA [ES]; SLEE DE) 19 October 2006 (2006-10-19) intermediates 13, 15	1, 2, 4, 6, 7, 10, 11	
A	claims 1-28 ----- -/-	16-20	
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.			
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claims, or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document relating to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principles or theory underlying the invention "X" document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step which the document is taken alone "Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "Z" document member of the same patent family			
Date of the actual completion of the international search 29 September 2008		Date of making of the international search report 16/01/2009	
Name and mailing address of the ISA/ European Patent Office, P.B. 5018 Patentsstrasse 2 Tel. +238 474 9444 Fax +238 474 9444 Fax +238 474 9444		Authorized officer Rufet, Jacques	

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G(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim no.
X	WO 2004/048365 A (CHIRON CORP [US]; NUSS JOHN M [US]; PECCHI SABINA [US]; RENHOWE PAUL A) 10 June 2004 (2004-06-10) claims 1,12; examples 73-75,121	1,13,14, 16-18
X	EP 0 407 899 A (HOECHST AG [DE] HOECHST SCHERING AGREVO GMBH [DE]) 16 January 1991 (1991-01-16) pages 20,21,38, 46, 48,49,63; claims 1, 2	1,2,13, 14
X	JP 54 117029 A (HOKKO CHEMICAL INDUSTRY CO., LTD., JAPAN; MEIJI MILK PRODUCTS CO., LTD.) 11 September 1979 (1979-09-11) compound 12; claim 1	1-5,7, 13,14
X	JP 54 147921 A (HOKKO CHEMICAL INDUSTRY CO., LTD., JAPAN; MEIJI SEIKA KAISHA, LTD.) 19 November 1979 (1979-11-19) compounds 15-19; claim 1	1-5,7,8, 13,14
X	JP 54 115384 A (HOKKO CHEMICAL INDUSTRY CO., LTD., JAPAN; MEIJI SEIKA KAISHA, LTD.) 7 September 1979 (1979-09-07) compound 168; claim 1	1-5,13, 14
X	DATABASE CROSSFIRE BEILSTEIN BEILSTEIN INSTITUT ZUR FOEDERUNG DER CHEMISCHEN WISSENSCHAFTEN, FRANKFURT AM MAIN, DE; Database-Accession no. 2983988 (BRN) XP002495819 abstract & JUSTUS LIEBIGS ANNALEN DER CHEMIE, vol. 704, 1967, pages 144-149, DE	1,2,10

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## Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in this claim; it is covered by claims Nos.:

1-9, 16-20 all partially and 10-15 complete

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

## FURTHER INFORMATION CONTINUED FROM PCTASA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-9, 16-20 all partially and 10-15 complete

Provision of compounds of formula (I) of claim 1 wherein R2 is phenyl or pyridyl, wherein the phenyl or pyridyl ring is substituted by 1 to 4 R4 groups, useful in the treatment of disorders which benefit from the inhibition of adenosine receptors like Alzheimer's disease, dyskinesia, ischemia, arrhythmis, acute renal failure, autoimmune diseases, inflammatory bowel diseases, asthma, obesity, diabetes mellitus, Parkinson's disease, etc....

2. claims: claims 1-9 and 16-20 all partially

Provision of compounds of formula (I) of claim 1 wherein R2 is isoquinoline, dihydroisoquinoline or tetrahydroisoquinoline ring, useful in the treatment disorders which benefit from the inhibition of adenosine receptors like Alzheimer's disease, dyskinesia, ischemia, arrhythmis, acute renal failure, autoimmune diseases, inflammatory bowel diseases, asthma, obesity, diabetes mellitus, Parkinson's disease, etc....

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2005058883 A	30-06-2005	AU 2004299461 A1 CA 2551944 A1 JP 2007514003 T	30-06-2005 30-06-2005 31-05-2007
EP 0459830 A	04-12-1991	AU 646669 B2 AU 7809891 A CA 2043671 A1 FI 912621 A HU 58303 A2 IE 911859 A1 JP 5320142 A NZ 238359 A PT 97804 A ZA 9104166 A	03-03-1994 05-12-1991 02-12-1991 02-12-1991 28-02-1992 04-12-1991 03-12-1993 27-09-1993 31-03-1992 24-02-1993
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EP 0407899 A	16-01-1991	DE 3922735 A1 HU 54280 A2 PT 94645 A US 5250530 A	24-01-1991 28-02-1991 20-03-1991 05-10-1993
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JP 54147921 A	19-11-1979	JP 1335146 C JP 60059883 B	11-09-1986 27-12-1985
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